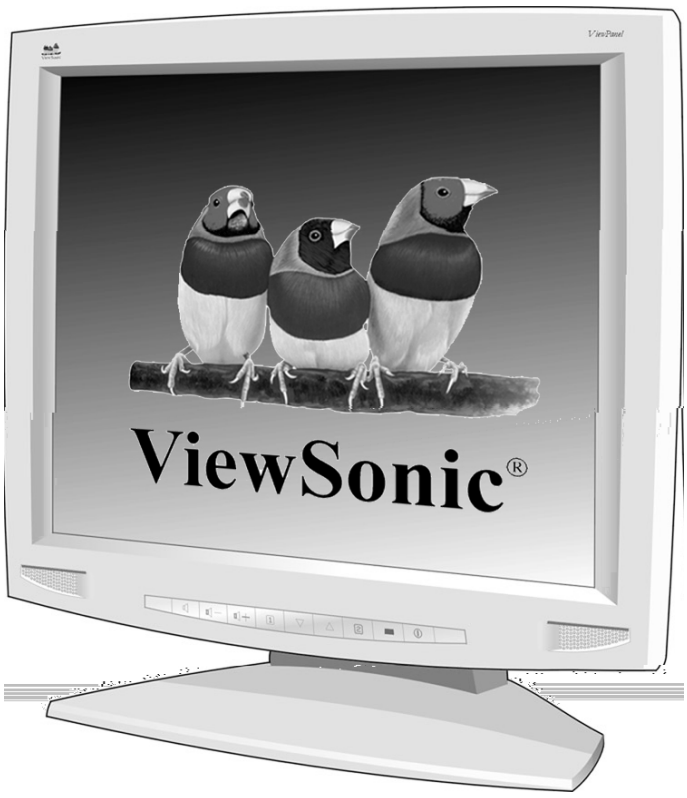
ViewSonic®

VE170m/VE170mb

LCD Display



Full 17.0" Diagonal Viewable Screen

User Guide

Guide de l'utilisateur

Bedienungsanleitung

Guía del usuario

Guida dell'utente

Guia do usuário

Användarhandbok

Käyttöopas

Руководство пользователя

Podręcznik użytkownika

ユーザーズ ガイド

使用手冊

使用手册

사용자 안내서

دليل المستخدم

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As an ENERGY STAR® partner, ViewSonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

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In the interest of continuing product improvement, ViewSonic Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

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Product Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: **www.viewsonic.com**. The ViewSonic Wizard CD-ROM also provides an opportunity for you to print the registration form which you may mail or fax to ViewSonic. **Note:** The Serial Number may be displayed from an on-screen display menu.

For Your Records

Product Name:	**ViewSonic VE170m/VE170mb**
Model Number:	**VLCDS23123-1/1b**
Document Number:	**VE170m/VE170mb-1-UG-313 (REV. 1B)**
Serial Number:*	_____
Purchase Date:	_____

Product disposal at end of product life

ViewSonic is concerned about the preservation of our environment. Please dispose of this product properly at the end of its useful life. Your local waste disposal company may provide information about proper disposal.

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Getting Started

Congratulations on your purchase of a *VE170m/VE170mb* color LCD display. ***Important!*** *Save the original box and all packing material for future shipping needs.*

NOTE: The word "Windows" in this user guide refers to the following Microsoft operating systems: Windows '95, Windows NT, Windows '98, Windows 2000 and Windows Me (Millennium).

Package Contents

Your *VE170m/VE170mb* package includes:

- *VE170m/VE170mb* LCD display
- Quick Start Guide
- Power cord
- Audio cable
- Video cable (15-pin D-sub)
- AC/DC Adapter
- ViewSonic Wizard CD-ROM (including user guide PDF file and INF/ICM display optimization files)

IMPORTANT: The supplied INF file assures compatibility with Windows operating systems, and the ICM file (Integrated Color Management) assures accurate on-screen colors.

Precautions

- For best viewing conditions sit at least 18" from the LCD display.
- AVOID TOUCHING THE SCREEN WITH YOUR FINGERS. Oils from the skin are difficult to remove.
- NEVER REMOVE THE REAR COVER. The LCD display contains high-voltage parts. You may suffer serious injury if you touch these parts.
- Avoid exposing the LCD display to direct sunlight or another heat source. The LCD display should be facing away from direct sunlight to reduce glare.
- Always handle your LCD display with care when moving it.
- Place your LCD display in a well ventilated area. Do not place anything on the LCD display that prevents adequate dissipation of heat.
- Ensure the area around the LCD display is clean and free of moisture.
- Do not place heavy objects on the LCD display, video cable, or power cord.
- If smoke, abnormal noise, or strange odor is present, immediately switch the LCD display off and call your dealer or ViewSonic. It is dangerous to continue using the LCD display.

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Quick Installation

1 Connect video cable

Make sure both the LCD display and computer are powered OFF.

- Remove the middle and lower rear panels
- Connect the video cable from the LCD display to the computer.

Macintosh users: Models older than G3 require a Macintosh adapter. Attach the adapter to the computer and plug the video cable into the adapter.

To order a ViewSonic® Macintosh adapter, contact ViewSonic *Customer Support*.

2 Connect power cord and AC/DC adapter

Connect the power cord and AC/DC adapter from the LCD display to a properly grounded AC outlet.

3 Power-ON LCD display and computer

Power-ON the LCD display, then power-ON the computer. This sequence (LCD display before computer) is very important.

NOTE: Windows 95, 98 or 2000 users may receive a message asking them to install the VE170m/VE170mb INF file.

4 Install display optimization files (INF and ICM files)

(1) Insert the ViewSonic Wizard CD-ROM into your computer's CD-ROM drive.

NOTE: If your computer does not have a CD-ROM drive, see "Customer Support" on page 13.

(2) Wait for the CD-ROM to auto-start.

NOTE: If the CD-ROM does not auto-start: double-click on the CD-ROM icon in the Windows Explorer, then double-click on **viewsonic.exe**

(3) Follow the on-screen instructions.

5 Windows users: Set the timing mode (resolution and refresh rate)

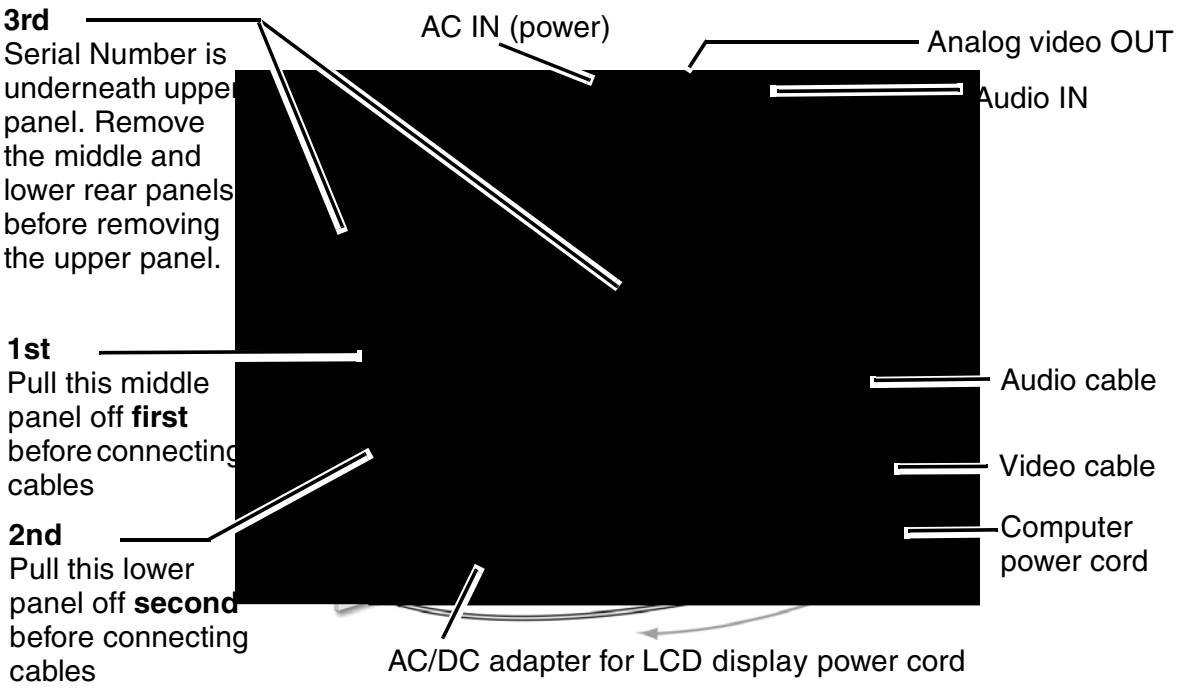
Example: 1280 X 1024 @ 60 Hz.

For instructions on changing the resolution and refresh rate, see the graphic card's user guide that came with your computer.

Installation is complete. Enjoy your new VE170m/VE170mb LCD display.

To register your product go online to **www.viewsonic.com**.

The ViewSonic Wizard CD-ROM also provides an opportunity for you to print the registration form which you may mail or fax to ViewSonic.


3rd
Serial Number is underneath upper panel. Remove the middle and lower rear panels before removing the upper panel.
AC IN (power)
Analog video OUT
Audio IN
1st
Pull this middle panel off first before connecting cables
Audio cable
Video cable
2nd
Pull this lower panel off second before connecting cables
Computer power cord
AC/DC adapter for LCD display power cord

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Using the LCD display

Setting the Timing Mode

Setting the timing mode is important for maximizing the quality of the screen image and minimizing eye strain. The **timing mode** consists of the **resolution** (example 1280 x 1024) and **refresh rate** (or vertical frequency – example 60 Hz). After setting the timing mode, use the OnView® controls (pages 8 - 10) to adjust the screen image.

For best picture quality set the LCD display timing mode to:
VESA® 1280 x 1024 @ 60 Hz

To set the Timing Mode:

1. Set the resolution: Right-click on the Windows® desktop > **Properties** > **Settings** > Desktop Area or Screen Area for Windows 98 and newer > set the resolution.
2. Set the refresh rate: See the user guide for your computer's graphics card.

WARNING: Do not set the graphics card in your computer to exceed the maximum refresh rate of 75Hz; doing so may result in permanent damage to your LCD display.

OSD and Power Lock Settings

- **OSD Lock:** Press and hold [1] and the up arrow ▲ for 10 seconds. If any buttons are pressed the message *OSD Locked* will display for 5 seconds.
- **OSD Unlock:** Press and hold [1] and the up arrow ▲ again for 10 seconds.
- **Power Button Lock:** Press and hold [1] and the down arrow ▼ for 10 seconds. If the power button is pressed the message *Power Button Locked* will display for 5 seconds. With or without this setting, after a power failure, your LCD display's power will automatically turn on when power is restored.
- **Power Button Unlock:** Press and hold [1] and the down arrow ▼ again for 10 seconds.

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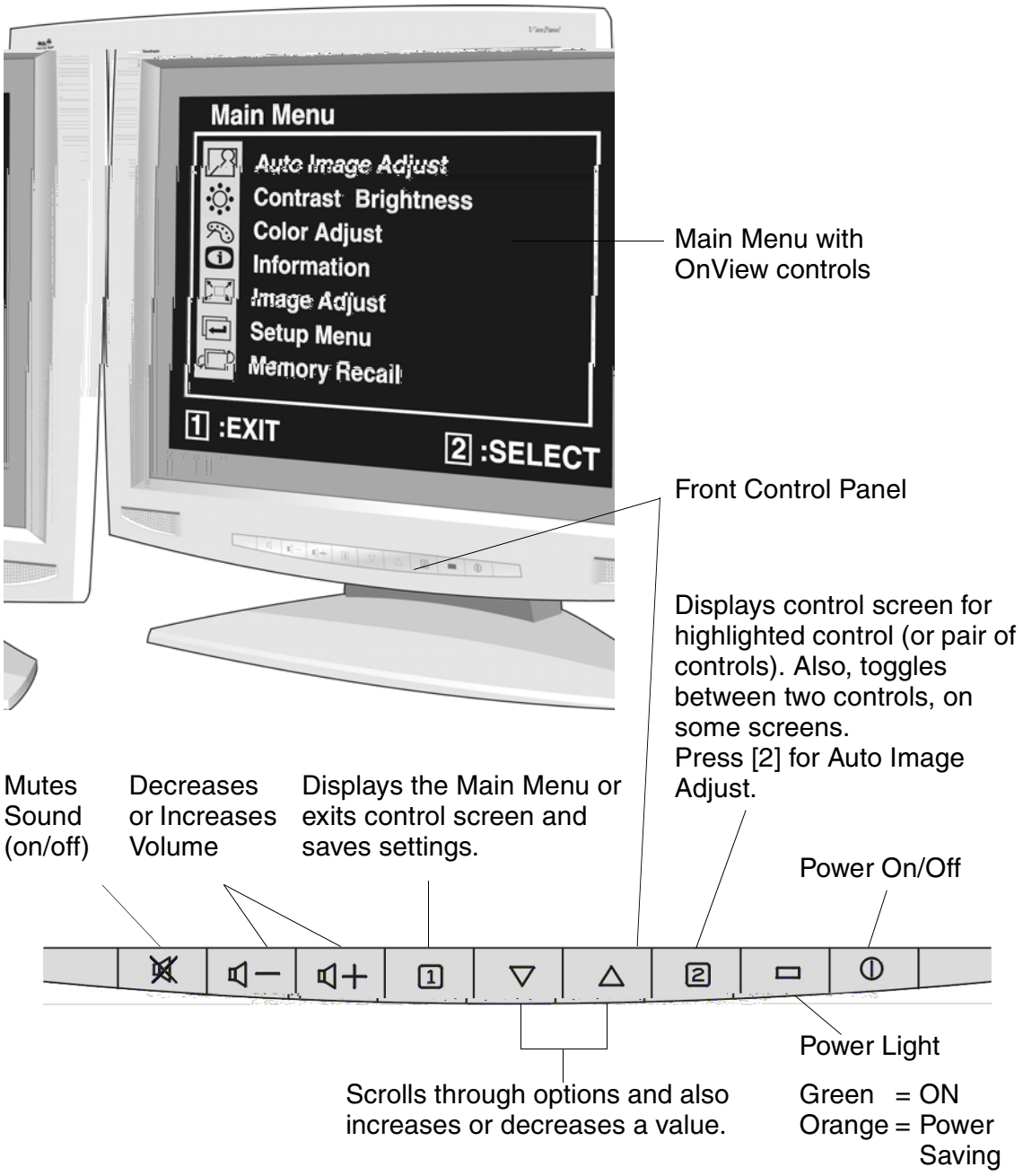
Adjusting the Screen Image

Use the buttons on the front control panel to adjust the OnView® controls which display on the screen. The OnView controls are explained at the top of the next page and are defined in "Main Menu Controls" on page 8.


Main Menu
Auto Image Adjust
Contrast Brightness
Color Adjust
Information
Image Adjust
Setup Menu
Memory Recall
1 :EXIT
2 :SELECT
Main Menu with OnView controls
Front Control Panel
Displays control screen for highlighted control (or pair of controls). Also, toggles between two controls, on some screens.
Press [2] for Auto Image Adjust.
Mutes Sound (on/off)
Decreases or Increases Volume
Displays the Main Menu or exits control screen and saves settings.
Power On/Off
Power Light
Green = ON
Orange = Power Saving
Scrolls through options and also increases or decreases a value.

Front Control Panel

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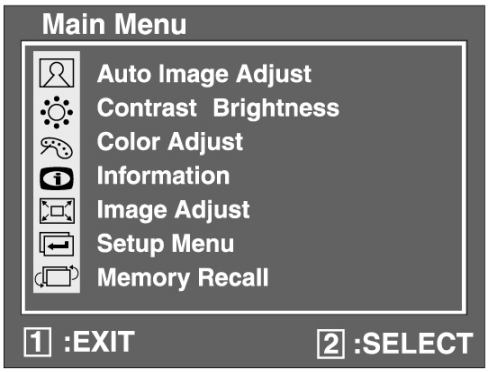
Do the following to adjust the screen image:

1 To display the Main Menu, press button [1]. From the Main Menu you can also navigate to the other menus shown below:



NOTE: All OnView menus and adjustment screens disappear automatically after about 15 seconds.

2 To select a control you want to adjust, press ▲ or ▼ to scroll up or down the Main Menu.
3 After the control is selected, press button [2].
4 To adjust the control, press the up ▲ or down ▼ buttons.
5 To save the adjustments and exit the menu, press button [1] *twice*.

The following tips may help you optimize your display:

- Adjust your computer's graphic card so that it outputs a video signal 1280 x 1024 @ 60Hz to the VE170m/VE170mb. (Look for instructions on "changing the refresh rate" in your graphic card's user guide.)
- Select Image Adjust. (Button [2] on the LCD display control.)
- If necessary, make small adjustments using H POSITION and V POSITION until the screen image is completely visible. (The black border around the edge of the screen should barely touch the illuminated "active area" of the LCD display.)

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Main Menu Controls

The menu items shown below can be adjusted by using the up ▲ and down ▼ buttons on the front of the LCD display.

Control	Explanation
	Auto Image Adjust automatically sizes, centers, auto-contrasts and fine tunes the video signal to eliminate waviness and distortion. Press the [2] button to obtain a sharper image. **NOTE:** Auto tune works with most common video cards. If this function does not work on your LCD display, then lower the video refresh rate to 60 Hz and set the resolution to its preset value.
	Contrast/Brightness Contrast adjusts the difference between the image background (black level) and the foreground (white level). Brightness adjusts background black level of the screen image. Press button [2] to toggle between Contrast and Brightness.
	Color Adjust displays the Color Adjust Menu explained below.
	Color Adjust provides four color adjustment modes. **9300k** – for a cooler, more blue image. **6500k** – for a warmer, more red image. **User Color** – Individual adjustments for red, green, and blue. **1** To select color (R, G or B) press button [2]. **2** To adjust selected color, press ▲ or ▼. To deactivate Video Enhanced Mode, press the up and down arrows ▲ ▼ simultaneously. When you are finished making all color adjustments, press button [10027 are fw[(arr6.3s)6.3(b711940 200.6Tc[twi0)-12ce

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Control	Explanation

Information displays an information menu showing technical information and the product serial number. See below.

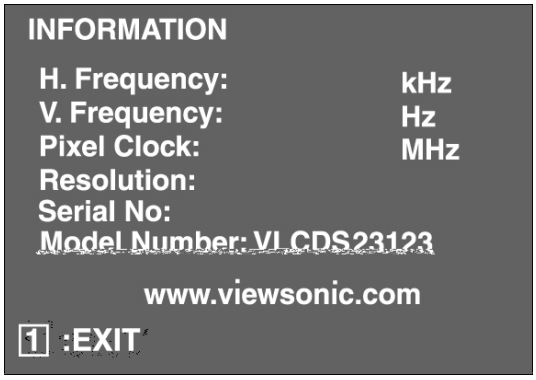
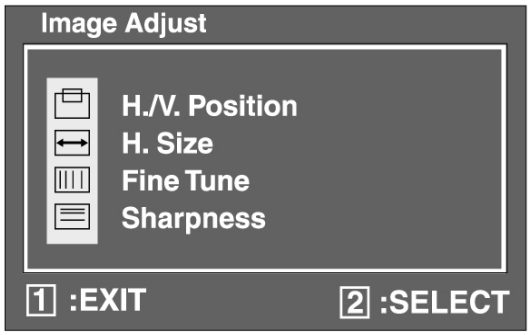


Image Adjust displays the Image Adjust menu.



The Image Adjust controls are explained below:

H./V. Position adjusts horizontal and vertical position of the screen image. You can toggle between Horizontal and Vertical by pressing button [2]. Horizontal moves the screen image to the left or to the right. Vertical moves the screen image up and down.

H. Size (Horizontal Size) adjusts the width of the screen image. (Note: Vertical size is automatic with your LCD display.)

Fine Tune eliminates any remaining video artifacts (noise, banding, out-of-phase, etc.)
Note: Try Auto Image Adjust first.

Sharpness adjusts the clarity and focus of the screen image.

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Setup Menu displays the menu shown below.

The Setup Menu controls are explained below.

Language Select allows you to choose the language used in the menus and control screens.

Resolution Notifier displays the Resolution Notice menu shown below.

Resolution Notice advises the optimal resolution to use.

OSD Position allows you to move the on-screen display menus and control screens.

OSct

Specifications

LCD	Type	17" (full 17" viewable diagonal area), TFT (Thin Film Transistor), Active Matrix XGA LCD, 0.264mm pixel pitch
	Color Filter	RGB vertical stripe
	Glass surface	Anti-Glare
Maximum viewing angles	Left	60°
	Right	60°
	Up	40°
	Down	60°
Input signal	Video Sync	RGB analog (0.7/1.0 Vp-p, 75 ohms) Separate Sync f_h:30-82 kHz, f_v:56-75 Hz
Compatibility	PC	Up to 1280 x 1024 Non-interlaced
	Macintosh[1]	Power Macintosh up to 1280 x 1024
Resolution	Recommended and supported	1280 x 1024 @ 60 & 75 Hz 1024 x 768 @ 70, 72, 75 Hz 800 x 600 @ 56, 60, 72, 75 Hz 640 x 480 @ 60, 72, 75 Hz 640 x 400 @ 70 Hz 720 x 400 @ 70 Hz
Power	Voltage	100-240 VAC, 50/60 Hz (auto switch), 19V DC +/- 5%, 3.5mA
Display area	Full Scan	337.92mm (H) x 270.34mm (V) 13.30" (H) x 11.04" (V)
Operating conditions	Temperature	32° F to + 104° F (0° C to + 40° C)
	Humidity	5% to 90% (no condensation)
	Altitude	To 10,000 feet (+3,000 meters)
Storage conditions	Temperature	-4° F to + 140° F (-20° C to + 60° C)
	Humidity	5% to 90% (no condensation)
	Altitude	To 40,000 feet (+12,000 meters)
Dimensions	Physical (LCD display only)	W x D x H 430.2 mm (16.94") x 206.7 mm (8.14") x 465 mm (18.31")
Weight	Net	8.5 kg (18 lb) LCD display only
Regulations	UL, cUL, FCC-B, CB, ISO13406-2, CE, TUV/GS, Ergo, E2000, NEMKO, SEMKO, DEMKO, FIMKO, TCO99, GOST-R (PCT BZ02), PCBC, VCCI, BSMI, CCIB, CCEE, PSB, IRAM, TCO95 (VE170mb) ENERGY STAR®	
Power saving modes	On	Normal (Green LED)
	Active Off	<3W (Orange LED)

Preset Timing Mode (pre-adjusted to VESA® 1280 x 1024 @ 60 Hz)

Warning: Do not set the graphics card in your computer to exceed these refresh rates; doing so may result in permanent damage to the LCD display.

[1] Macintosh computers older than G3 require a ViewSonic® Macintosh adapter. To order an adapter, contact ViewSonic "Customer Support" on page 13.

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Troubleshooting

No power

- Make sure power button (or switch) is ON.
- Make sure A/C power cord is securely connected to the DC power supply and the power supply is firmly connected to the LCD display.
- Plug another electrical device (like a radio) into the power outlet to verify that the outlet is supplying proper voltage.

Power on but no screen image

- Make sure the video cable supplied with the LCD display is tightly secured to the video output port on the back of the computer. If the other end of the video cable is not attached permanently to the LCD display, tightly secure it to the LCD display.
- Adjust brightness and contrast.
- If you are using an Macintosh older than G3, you need a Macintosh adapter.

Wrong or abnormal colors

- If any colors (red, green, or blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection.
- Connect the LCD display to another computer.

Customer Support

For technical support or product service, see the table below or contact your reseller.

NOTE: You will need the product serial number.

Country/ Region	Web site	T = Telephone F = FAX	Email
United States	viewsonic.com/ support	**T:** (800) 688-6688 **F:** (909) 468-1202	service.us@ viewsonic.com
Canada	viewsonic.com/ support	**T:** (800) 688-6688 **F:** (909) 468-1202	service.ca@ viewsonic.com
United Kingdom	viewsoniceurope.com	**T:** 0800 833 648 **F:** (01293) 643910	service.eu@ viewsoniceurope.com
Europe, Middle East, Baltic countries, and North Africa	viewsoniceurope.com	Contact your reseller	service.eu@ viewsoniceurope.com
Australia and New Zealand	viewsonic.com.au	**T:** +61 2 9929 3955 **F:** +61 2 9929 8393	service.au@ viewsonic.com
Singapore/India and Southeast Asia	viewsonic.com.sg	**T:** 65 273 4018 **F:** 65 273 1566	service.sg@ viewsonic.com
Other Asia/Pacific countries	viewsonic.com.tw	**T:** 886 2 2246 3456 **F:** 886 2 8242 3668	service.ap@ viewsonic.com
South Africa	viewsonic.com/asia	**T:** 886 2 2246 3456 **F:** 886 2 8242 3668	service.ap@ viewsonic.com

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Cleaning the LCD display

- MAKE SURE THE LCD display IS TURNED OFF.
- NEVER SPRAY OR POUR ANY LIQUID DIRECTLY ONTO THE SCREEN OR CASE.

To clean the screen:

1. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
2. If still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.

To clean the case:

1. Use a soft, dry cloth.
2. If still not clean, apply a small amount of a non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth, then wipe the surface.

Disclaimer

ViewSonic® does not recommend the use of any ammonia or alcohol-based cleaners on the LCD display screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the LCD display. ViewSonic will not be liable for damage resulting from use of any ammonia or alcohol-based cleaners.

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Limited Warranty
VIEWSONIC LCD display

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, **ViewSonic** will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:

ViewSonic LCD displays are warranted for three (3) years for all parts including the light source and three (3) years for all labor from the date of the first consumer purchase.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
   a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
   b. Repair or attempted repair by anyone not authorized by **ViewSonic.**
   c. Any damage of the product due to shipment.
   d. Removal or installation of the product.
   e. Causes external to the product, such as electrical power fluctuations or failure.
   f. Use of supplies or parts not meeting **ViewSonic**'s specifications.
   g. Normal wear and tear.
   h. Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact **ViewSonic Customer Support.** You will need to provide your product's serial number.
2. To obtain service under warranty, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized **ViewSonic** service center or **ViewSonic.**
4. For additional information or the name of the nearest **ViewSonic** service center, contact **ViewSonic**.

Limitation of implied warranties:

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Exclusion of damages:

VIEWSONIC'S LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. VIEWSONIC SHALL NOT BE LIABLE FOR:

1. DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
3. ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on **ViewSonic** products sold outside of the U.S.A. and Canada, contact **ViewSonic** or your local **ViewSonic** dealer.

ViewSonic LCD Warranty (V2.0) Release Date: 10-15-1999

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rated with the original power supply, part number: HASU05F, SA30-12V or ADP-40TB
be installed near the equipment and shall be easily accessible.
t is properly grounded. Always use the appropriate AC cord that is certified for the individ-
sted below:

ONCERNING POWER CORD SELECTION

as been enclosed and has been selected according to the country of destination and must
. Use the following guidelines if it is necessary to replace the original cord set, or if the cord

d set mu4(rd)-2-20.4( )20.4(86(u4m.4(86(uE(T)16.4(C)-14.1(-)-4(6(u4(rd)0320(e)-20.4(q(e)-20.8(ui)-10.4e(pm

Compliance Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Warning

To assure continued FCC compliance, the user must use grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable is going to be used, use only a shielded BNC(5) cable. Also, any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Notice for Japan

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

CE Conformity

CE

The device complies with the requirements of the EEC directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC Art.5 with regard to “Electromagnetic compatibility," and 73/23/EEC as amended by 93/68/EEC Art.13 with regard to “Safety."

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